

Resolution A16-1R4

**INTERSESSIONAL WORKING GROUP (IWG) ON FREQUENCY
MANAGEMENT FOR THE INTERNATIONAL SPACE STATION (ISS)**

The SFCG,

CONSIDERING

- a) that the International Space Station (ISS) is an international manned space program lead by inter-government agreements between participating countries and controlled by national space agencies;
- b) that current Space Frequency Coordination Group (SFCG) member agencies contributing to the ISS include Canadian Space Agency (CSA), European Space Agency (ESA), National Aeronautics and Space Administration (NASA), National Space Development Agency of Japan (NASDA), Russian Aviation and Space Agency (RSA), and Italian Space Agency (ASI), hereafter referred to as the International Partners, along with any future participating agencies;
- c) that, in accordance with Resolution A8-1, SFCG-16 created an Intersessional Working Group called International Space Station (IWG ISS);
- d) that, the ISS Radio Frequency (RF) Coordination Manual (SSP50423) has been adopted by the Frequency Managers of the International Partners;
- e) that, in accordance with the relevant provisions in Articles 9 and 11 of the International Telecommunications Union (ITU) Radio Regulations (RR), transmitting/receiving systems of international programs shall be advance-published and notified in the ITU (RR 11.4) by the respective national administrations working with the above agencies;
- f) that advance information shall be sent to the ITU no later than two years before the planned date of bringing the transmitting/receiving systems into use (RR 9.1) and that notices relating to the frequency assignments of these systems shall reach the ITU no later than three months before the assignments are brought into use (RR 11.25);
- g) that up-to-date and complete technical information about all ISS transmitting/receiving systems operating on or in its vicinity (within 50 km) should be disseminated as soon as it becomes available in order to facilitate timely completion of electromagnetic compatibility and radio frequency interference analyses;

- h) that any potential modifications to frequencies and technical parameters, which become necessary as a result of the international notification or other reasons, must be reported immediately in order to keep up-to-date records of all ISS transmitting/receiving systems operating on or in its vicinity (within 50 km).

RESOLVES

1. that the IWG ISS has the following terms of reference:
 - to facilitate the frequency management and ITU registration for national participants providing ISS radio equipment;
 - to facilitate the submission to the Chairman of the IWG ISS the current data on all ISS transmitting/receiving systems operating on or in its vicinity (within 50 km) for recording into the relevant section of the SFCG Satellite Database (SSDB);
 - to facilitate the sharing of the relevant section of the SSDB and the dissemination of plans for operational uses of all ISS transmitting/receiving systems planned for use on or in its vicinity (within 50 km);
 - to recommend to the relevant program offices frequency bands for new systems, experiments and experiment support facilities which are proposed as a result of evolving program requirements;
 - to facilitate the resolution of interference issues to and from the ISS radio equipment between SFCG member agencies.
2. that the IWG ISS urges SFCG member agencies who contribute to ISS:
 - to conduct, in compliance with the relevant provisions of the ISS RF Coordination Manual, the necessary radio frequency interference (RFI) and electromagnetic interference (EMI) analyses based on information provided in the SSDB to facilitate coordination of ISS radio frequency spectrum usage;
 - to promulgate the results of electromagnetic compatibility and radio frequency interference analyses performed by SFCG member agencies who contribute to ISS;
 - to provide guidance to the relevant program offices regarding ISS RFI/EMI incompatibility and to recommend solutions to radio frequency spectrum usage issues;
3. that Ms C. Sham (NASA) is the chairman of the IWG ISS, and the members are:

ASI	L. Garramone
CSA	J. Chambers
CSA	M. Gaudreau
ESA	U. Christ

ESA	J. Gerner
NASA	R. Porter
NASA	F. Manshadi
NASA	B. Kaufman
NASDA	S. Fukuda
NASDA	T. Mukai
RASA	M. Vasiliev
RASA	A. Martynov
IUCAF	W. Van Driel
CMA	Z. Sun
CMA	J. Yang
NSPO	J. Yaung